

S62200 SERIES
PACKAGE A2

ALL PARTS AVAILABLE AS CLASS S OR CLASS B

MIL-STD-981

ELECTRICAL SPECIFICATIONS

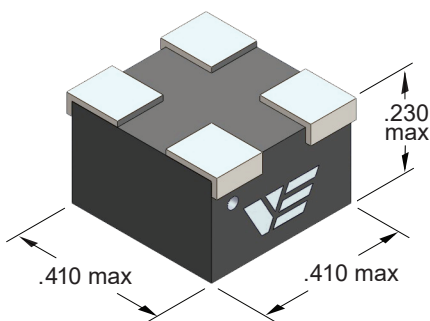
- **Operating Temperature:** -55°C to +125°C
- **Storage Temperature:** -60°C to +135°C
- **Temperature Rise @ 90°C:** < 30°C
- **Inductance at rated DC:** $\geq 70\%$ of initial
- **Dielectric Withstanding Voltage:** 500 V_{RMS}
- **Delta L:** $\pm 2\%$ over operating temperature range
- **Low Outgassing:** TML <1%
- **Overload Current:** 1.5 times rated current
- **Different electrical values available upon request**

FEATURES

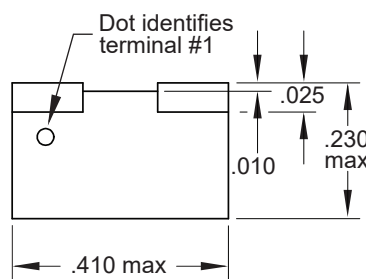
- **Compact**, low profile, ideal for automatic placement
- Built to meet **MIL-STD-981** specifications
- **Terminations:** Tin-lead
- **Welded Internal Connections**
- **Moisture, Shock and Immersion Resistant**
- **Self Shielding**
- **Other termination finishes available**

APPLICATIONS

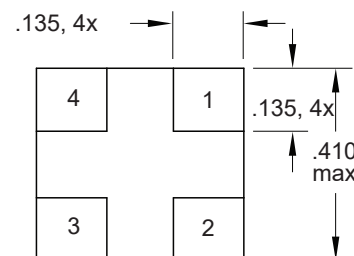
- Filter inductors
- Power supplies
- Ripple suppressors
- DC/DC converters
- SEPIC converters

THRU-HOLE &
GULL-WING PACKAGES
ALSO AVAILABLE

MARKINGS: LASER ETCH OR INK

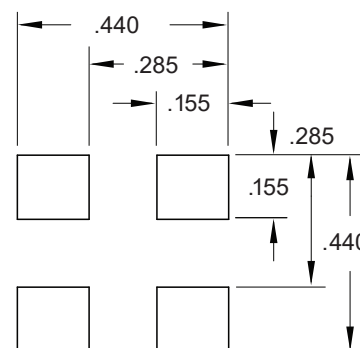


SIDE VIEW



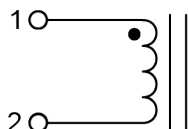
BOTTOM VIEW

IN	MM
0.440	11.18
0.410	10.41
0.285	7.24
0.230	5.84
0.155	3.94
0.135	3.43
0.025	0.64
0.010	0.25



RECOMMENDED MOUNTING PAD CIRCUIT SIDE

SCHEMATIC

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DATA TABLE

Vanguard P/N	Inductance (uH $\pm 10\%$)	DCR max (Ohms)	Rated DC Current (mA)
S62201	15	0.069	1460
S62202	18	0.073	1380
S62203	20	0.078	1300
S62204	22	0.081	1240
S62205	25	0.100	1180
S62206	27	0.114	1130
S62207	30	0.120	1050
S62208	33	0.130	1000
S62209	39	0.177	920
S62210	47	0.196	830
S62211	50	0.200	800
S62212	56	0.209	780
S62213	68	0.263	710
S62214	75	0.285	670
S62215	82	0.315	640
S62216	100	0.443	580
S62217	120	0.484	530
S62218	150	0.694	470
S62219	180	0.760	430
S62220	200	0.800	410

Vanguard P/N	Inductance (uH $\pm 10\%$)	DCR max (Ohms)	Rated DC Current (mA)
S62221	220	0.84	390
S62222	250	1.00	370
S62223	270	1.18	350
S62224	300	1.22	330
S62225	330	1.29	320
S62226	350	1.50	300
S62227	390	1.76	290
S62228	470	1.94	260
S62229	500	2.00	250
S62230	560	2.12	240
S62231	680	2.88	220
S62232	750	3.00	210
S62233	820	3.16	200
S62234	1000	4.42	180
S62235	1200	4.84	160
S62236 ♦	1500	7.10	140
S62237 ♦	1800	7.77	120
S62238 ♦	2000	8.00	115
S62239 ♦	2200	8.58	112
S62240 ♦	2700	12.11	110
S62241 ♦	3000	13.00	100

Inductance measured at 10 kHz, 0.1 V_{RMS}

♦ **Note:** Part numbers noted are MIL-STD-981, Class "S" compliant with the exception of wire size. All other aspects are met 100%. Contact Vanguard for more information

CUSTOM DESIGNS & MODIFICATIONS:

Other electrical configurations and performance characteristics are available in various sizes and package types

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